

SONY®

Professional Flat Panel Plasma Displays

PFM Series



PFM-50C1

PFM-50C1E

PFM-42B2

PFM-42B2E

PFM-42V1

PFM-42V1E

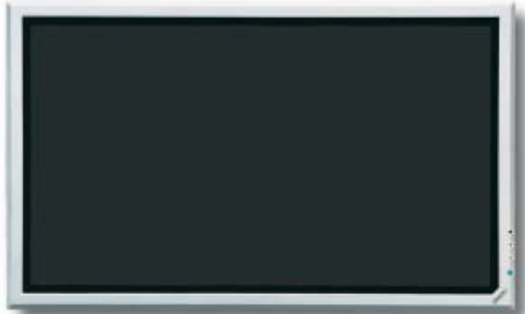
PFM-42V1P

PFM-42V1A

FEATURES AND BENEFITS



PFM-50C1/50C1E



PFM-42B2/42B2E



PFM-42V1/42V1E

Make Your Digital Signage And Presentations More Powerful With Sony Plasma Displays

The PFM-42V1 incorporates a WVGA plasma display panel that achieves a high brightness and high contrast ratio. Its slim and lightweight design combined with precise images and smooth picture edges make it ideal for digital signage at retail stores, shopping malls, airports, train stations, entertainment venues, hospitality rooms - and anywhere you need to grasp the attention of visitors.

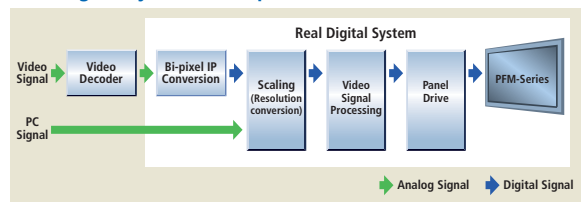
The PFM-50C1 and PFM-42B2 models combine a plasma display panel with XGA resolution, to produce clearer and more legible images of small characters, which makes these displays ideal for presentations and meetings to gain your audiences' attention.

Note: in this brochure, references to the PFM-42V1, PFM-42B2, and PFM-50C1 also refer to models with an "E" suffix.

Excellent I/P Conversion Quality

With Sony's Real Digital System technology, all signals are processed digitally to reproduce highly accurate images. A bi-pixel I/P (Interlace/Progressive) conversion circuit, developed exclusively for Sony plasma displays, converts interlaced signals to progressive images of a higher definition quality. For film-originated sources, the Cinema Drive function (3-2 pull-down technology) is incorporated to naturally reproduce scene movement.

Real Digital System Concept Chart



* The combination of a high-quality plasma display panel and excellent I/P conversion technology produces clear and smooth images.

Digital Video Input (DVI-D)

The DVI input function offers a high picture quality when used with a DVI-equipped PC (DVI video cable is supplied).



NOTE: These icons indicate which features are available for each model.



PFM 50 PFM 42B2 PFM 42V1 Multi-Layer, AR-Coated, Protection Panel

The anti-reflection (AR) coating on the glass protection panel reduces light reflection for clear, high-contrast picture viewing.

PFM 50 PFM 42B2 PFM 42V1 Multiple Inputs and High-Performance Scan Converter

The PFM Series utilizes 16:9 aspect ratio flat panels that provide smooth, high-quality images across the entire screen. Display signals range from standard SDTV* to HDTV, and RGB computer signals with resolutions up to UXGA. A range of optional input adapters is available, providing convenient system flexibility. In addition, an integrated high-performance scan converter provides accurate pixel-by-pixel image reproduction, offering optimum image quality whatever the signal format.

* An optional adapter is required to accept composite video signals. The PFM-50C1E and PFM-42B2E models require the BKM-B10 adapter, and the PFM-42V1E requires the BKM-V10 adapter.

PFM 50 PFM 42B2 PFM 42V1 Versatile and Stylish Design

With its simple yet sophisticated appearance, the PFM Series offers a stylish, high-impact way to convey graphical messages. With excellent installation flexibility, these slim and lightweight displays provide large, superb-quality images in minimal space.

- * The bezel of the PFM-42B2 is available in warm silver or dark gray.
- * The bezel of the PFM-50C1 is available in cool silver.
- * The bezel of the PFM-42V1 is available in cool silver or bluish black. There is also a vertical bezel version (PFM-42V1P) available in bluish black.

PFM 50 PFM 42V1 High-Quality Digital Audio Amplifier

These two models give exceptionally clear audio reproduction due to their high-quality integrated digital amplifiers. In addition, the amplifiers feed Speaker Out (L/R) connectors so that optional speakers can be connected - further enhancing audio performance and quality.

PFM 42B2 Network Capability (with the optional BKM-B30NW adapter)

The optional BKM-B30NW network adapter provides an Ethernet 10Base-T/100Base-TX interface, plus a PC Card slot, enabling the PFM-42B2 to connect to a network. Users can then put the display to use in the expanding world of visual network communications, both in wired and wireless environments. The adapter also provides a Y/C and a composite analog input.

File sharing through a network

When the PFM-42B2 is connected to a network, files can be shared over that network and opened for display*.

* Microsoft® PowerPoint® (PPT, PPS), Microsoft Excel (XLS), JPEG, GIF, BMP, and PNG file types are supported.

Remote control from networked PCs

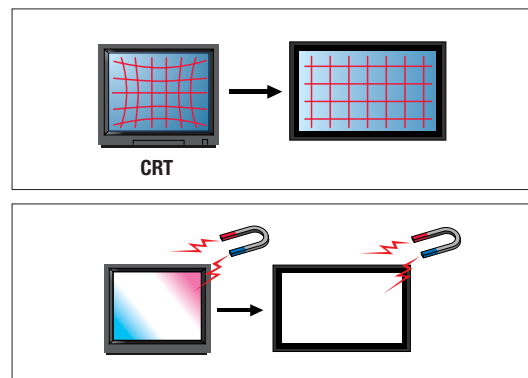
Any PC residing on the network can communicate with the PFM-42B2 display via a web browser*. Conducting presentations, organizing files, and controlling both the display's functions and setup parameters can all be done with a simple, familiar web-based operation.

* System requirements

Operating system: Microsoft Windows® 98, Windows 98 SE, Windows Me, or Windows 2000
Web browser: Internet Explorer 4.0 or later, or Netscape® Communicator 4.5x or 4.7x

PFM 50 PFM 42B2 PFM 42V1 Flat Panel Advantages

- Flat panel displays produce an accurate image geometry due to the linear alignment of the pixels.
- Unlike conventional CRTs, flat panel displays are resistant to magnetic fields - providing drift-free color uniformity.





Easy-To-Use Remote Control

Easy display control is provided with a supplied remote control unit.

* RM-971 for the PFM-50C1 and PFM-42V1, RM-42B for the PFM-42B2.

* PFM Series displays also offer RS-232C control.

Mounting Flexibility

All models can be mounted in various positions to meet different user applications - whether placed on the optional stand*, installed on a wall, or hung from a ceiling. They can also be mounted horizontally or vertically.

* Optional stand SU-P50C is available for PFM-50C1, and optional stand SU-42B is available for PFM-42B2 and PFM-42V1.

Selectable Aspect Ratio

Aspect ratios can be selected from Widescreen 16:9 (Full), Wide Zoom (Expanded 4:3), Letter Box Zoom, or Standard 4:3 displays. The PFM-50C1 and PFM-42V1 displays additionally provide a Subtitle mode.

Precise Color Temperature Control

Up to three color temperature settings can be registered with the PFM-50C1 and PFM-42V1, and up to six settings with the PFM-42B2 to meet the specific needs of your display environment.

Picture Zoom Control

Zoom in to a section of a picture for a closer look using the Picture Zoom Control function. This also allows up to 16 units arranged in a 4 by 4 matrix to be used in video-wall applications.

Dot Phase Adjustment (for analog RGB input from a PC)

The sampling phase for signal digitizing can be precisely adjusted to the input RGB analog signal, creating clearer pictures. When the display receives an input signal, it automatically adjusts the picture's sharpness (phase/pitch) and ensures that a clear picture appears on the screen. Users can also adjust the setting manually.

Size and Position Adjustment

If a picture is not properly sized or correctly positioned on the screen, the size and position of the image can be manually adjusted.

Picture Setting Memory

Up to 20 individual patterns of picture settings can be saved and loaded. This function is convenient for multiple users to operate the display. The following settings are available.

• Contrast	• Brightness	• Chroma
• Phase	• Sharpness	• Noise Reduction
• Color Temperature	• Color Correct	• Gamma Correct
• Resize and Position	• Aspect Ratio Adjustment	
• Pixel Adjustment		

Six-Language On-Screen Display

A quick and simple setup is available in English, French, German, Italian, Spanish, and Japanese.

Closed Caption Decoder

This enables the closed caption data embedded in a video signal to be displayed.

Screen Saver

Residual images are reduced effectively with Picture Orbiting and Picture Inversion.

Energy-Saving Mode

The energy-saving mode decreases the power consumption by reducing the emission level of the Plasma panel saving cost throughout the lifespan of the display.

24-Hour On/Off Timer

The power can conveniently be turned on and off using the built-in 24-hour on/off timer.

Picture Modes

The PFM series offers several pictures modes to allow images to be displayed according to different user preferences and viewing environments. Two factory presets; Standard Mode and Vivid Mode, allow for quick and easy display setup. Also available are three User Modes for storage of user defined settings.

Auto Wide Function

The Auto Wide function automatically enlarges the video image to fill the 16:9 wide aspect screen.

Worldwide Power Supply

OPTIONAL ACCESSORIES



PFM 42V1

BKM-V10

Video Input Adapter

- Composite input/output
- Y/C input
- Audio input (x1)



PFM 42V1

BKM-V11

Component/RGB Input Adapter

- YUV input
- Audio input (x1)



PFM 50

BKM-B10

Video Input Adapter

- Composite input/output
- Y/C input
- Audio input (x1)



PFM 42B2

BKM-B12

Component Video Input Adapter

- Component input
- Control-S input/output



PFM 42B2

BKM-B13

Composite Video Input and Control-S Adapter

- Composite input/output
- Y/C input
- Control-S input/output



PFM 42B2

BKM-B30NW

Network Adapter

- Y/C input
- Composite input
- Ethernet 10Base-T/100Base-TX interface
- PC Card slot (Type II)
- Two USB ports (A type)



PFM 50

SS-SP10A

Speaker System



PFM 42V1

SS-SP20B

Speaker System

* Available in bluish black or cool silver.



PFM 50

SU-P50C

Monitor Stand

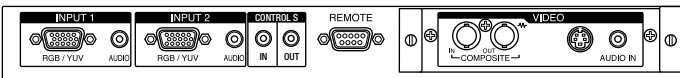


PFM 42B2

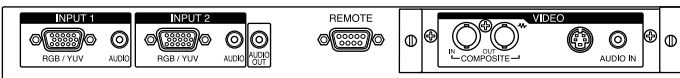
SU-42B

Monitor Stand

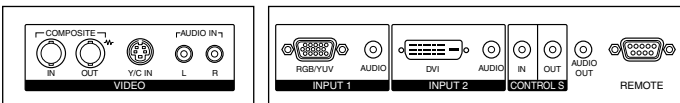
Connector Panel



PFM-50C1 Control Panel. PFM-50C1E requires an optional BKM-B10 adapter to accept video signals.



PFM-42B2 Control Panel. PFM-42B2E requires an optional BKM-B10 adapter to accept video signals.



PFM-42V1 Control Panel. PFM-42V1E requires an optional BKM-V10 adapter to accept video signals.

MAJOR PRESET SIGNALS

VIDEO	fH (kHz)	Frame rate ¹⁾ (Hz)	Resolution (Active)
• NTSC	15.734	60	480 lines
• PAL	15.625	50	575 lines
• SECAM	15.625	50	575 lines
• NTSC ₄₄₃	15.734	60	480 lines
• PAL60	15.734	60	480 lines
• PAL-M	15.734	60	480 lines
• PAL-N ²⁾	15.734	60	480 lines
• 575/50I	15.625	50	575 lines
• 480/60I	15.734	60	480 lines
• 1080/24PsF	27.000	24	1080 lines
• 1080/50I	28.125	50	1080 lines
• 576/50P	31.250	50	576 lines
• 480/60P	31.469	60	480 lines
• 1080/60I	33.750	60	1080 lines
• 720/60P	45.000	60	720 lines

COMPUTER INPUT	fH (kHz)	fV (Hz)	Resolution (Active)
• VGA-1 (VGA 350)	31.5	70	640 x 480 dots
• 640 x 350 @85 (VESA STD)	37.9	85	640 x 350 dots
• 640 x 400 @85 (VESA STD)	37.9	85	640 x 400 dots
• 640 x 400 @60 (VESA STD)	31.5	60	640 x 480 dots
• Mac 13"	35.0	67	640 x 480 dots
• 640 x 480 @72 (VESA STD)	37.9	72	640 x 480 dots
• 640 x 480 @75 (VESA STD)	37.5	75	640 x 480 dots
• 640 x 480 @85 (VESA STD)	43.3	85	640 x 480 dots
• 852 x 480 @60 (I-O DATA) ³⁾	31.7	60	852 x 480 dots
• VGA (VGA TEXT)	31.5	70	720 x 400 dots
• 720 x 400 @85 (VESA STD)	37.9	85	720 x 400 dots
• 800 x 600 @56 (VESA STD)	35.2	56	800 x 600 dots
• 800 x 600 @60 (VESA STD)	37.9	60	800 x 600 dots
• 800 x 600 @72 (VESA STD)	48.1	72	800 x 600 dots
• 800 x 600 @75 (VESA STD)	46.9	75	800 x 600 dots
• 800 x 600 @85 (VESA STD)	53.7	85	800 x 600 dots
• Mac 16"	49.7	75	832 x 624 dots
• 1024 x 768 @60 (VESA STD)	48.4	60	1024 x 768 dots
• 1024 x 768 @70 (VESA STD)	56.5	70	1024 x 768 dots
• 1024 x 768 @75 (VESA STD)	60.0	75	1024 x 768 dots
• 1024 x 768 @85 (VESA STD)	68.7	85	1024 x 768 dots
• 1152 x 864 @75 (VESA STD)	67.5	75	1152 x 864 dots
• Mac 21"	68.7	75	1152 x 870 dots
• 1280 x 960 @60 (VESA STD)	60.0	60	1280 x 960 dots
• 1280 x 960 @85 (VESA STD)	85.9	85	1280 x 960 dots
• 1280 x 1024 @60 (VESA STD)	64.0	60	1280 x 1024 dots
• 1280 x 1024 @75 (VESA STD)	80.0	75	1280 x 1024 dots
• 1280 x 1024 @85 (VESA STD) ⁴⁾	91.1	85	1280 x 1024 dots
• 1600 x 1200 @60 (VESA STD) ^{5) *7)}	75.0	60	1600 x 1200 dots
• 856 x 480 @60 (Matrox) ⁶⁾	30.2	60	856 x 480 dots
• 856 x 480 @59.6 (Matrox) ⁶⁾	30.1	59.6	856 x 480 dots
• 856 x 480 @60.1 (Matrox) ⁶⁾	30.1	60.1	856 x 480 dots
• 848 x 480 @60 (VESA STD) ⁷⁾	29.8	60	848 x 480 dots
• 848 x 480 @60 (VESA STD)	29.5	60	848 x 480 dots
• 848 x 480 @75	37.7	75	848 x 480 dots
• 1280 x 768 @60	47.8	60	1280 x 768 dots
• 1280 x 768 @60	47.4	60	1280 x 768 dots

*1 Compatible with 1/1.001

*2 Applicable to PFM-50C1

*3 With a graphics accelerator board from I-O Data Device, Inc.

*4 Applicable to PFM-42B1 and PFM-50C1

*5 Dot phase adjustment not applicable to UXGA resolution (1600 x 1200)

*6 With a graphics card from Matrox Graphics Inc.

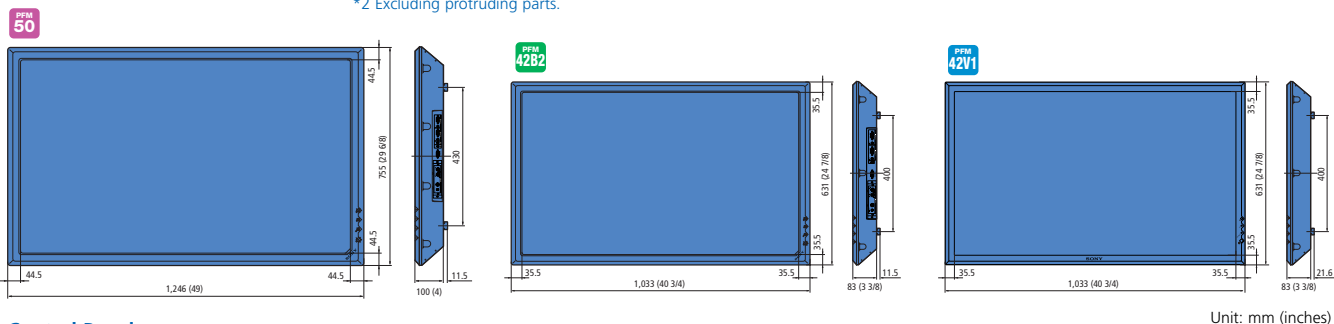
*7 The DVI-D does not accept these signals.

• PFM-42B2, PFM-50C1

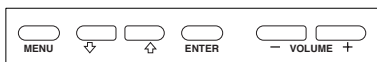
■ PFM-42V1

Picture Performance		PFM50C1/50C1E	PFM42B2/42B2E	PFM42V1/42V1E/42V1P/42V1A
Panel	Resolution	1365 x 768 pixels	1024 x 1024 pixels	852 x 480 pixels
	Pixel pitch	0.81 x 0.81 mm	0.90 x 0.51 mm	1.08 x 1.08 mm
	Active area (W/H)	1,106 x 622 mm	921 x 522 mm	920 x 518 mm
	Viewable picture area	50-inch/1,270 mm (measured diagonally)	42-inch/1,058 mm (measured diagonally)	
	Colors	16.8 million colors simultaneously		
	Type	AC-type Plasma Display Panel with anti-reflection screen		
Color system		NTSC, PAL, SECAM, NTSC4.43, PAL60, PAL-M, PAL-N	NTSC, PAL, SECAM, NTSC4.43, PAL60, PAL-M	NTSC, PAL, SECAM, NTSC4.43, PAL60, PAL-M, PAL-N
Sampling rate		13.5 to 140 MHz		
Input/Output				
INPUT1		D-sub 15-pin		
	RGB	0.7 Vp-p/non composite, 1.0 Vp-p composite, 75 Ω		
	YUV	0.7 Vp-p/non composite (U/V), 1.0 Vp-p/composite (Y), 75 Ω		
	AUDIO	Stereo mini jack, 500 mVrms, high impedance		
INPUT2		D-sub 15-pin		DVI
	RGB	0.7 Vp-p/non composite, 1.0 Vp-p composite, 75 Ω		—
	YUV	0.7 Vp-p/non composite (U/V), 1.0 Vp-p/composite (Y), 75 Ω		—
	AUDIO	Stereo mini jack, 500 mVrms, high impedance		
VIDEO**		COMPOSITE IN	BNC, 1.0 Vp-p ±2 dB sync negative, 75 Ω automatic termination	
	Y/C IN	Mini DIN 4-pin		
		Y: 1.0 Vp-p ±2 dB sync negative, 75 Ω automatic termination		
		C: 0.286 Vp-p ±2 dB sync negative (NTSC), 75 Ω		
		0.3 Vp-p ±2 dB sync negative (PAL), 75 Ω		
	AUDIO IN	Stereo mini jack, 500 mVrms, high impedance		Phono jack (L/R), 500 mVrms, high impedance
	COMPOSITE OUT	BNC, loop-through		
AUDIO OUT		Stereo mini jack, 500 mVrms, high impedance		
REMOTE (RS-232C)		D-sub 9-pin		
General				
Power requirements		AC 100 to 240 V, 50/60 Hz, 5.4 to 2.2 A	AC 100 to 240 V, 50/60 Hz, 4.2 to 1.5 A	AC 100 to 240 V, 50/60 Hz, 3.7 to 1.5 A
Power consumption		490 W	360 W	360 W
Operating temperature		0 to 35 °C (32 to 95 °F)		
Storage temperature		-10 to 40 °C (14 to 104 °F)		
Humidity		20 to 90 %, no condensation		
Dimensions**2 (W/H/D)		1,246 x 755 x 100 mm (49 x 29 6/8 x 4 inches)	1,033 x 631 x 83 mm (40 3/4 x 24 7/8 x 3 3/8 inches)	
Mass		46.7 kg (103 lb 9 oz)	28.4 kg (62 lb 9 oz)	27.0 kg (59 lb 8 oz)
Supplied Accessories		AC Power Cord, AC Plug Holder (2), AA/R6 size Battery (2), Cable Holder A (2), Cable Holder B (4), Operating Instructions		DVI-D Cable, AC Power Cord, AC Plug Holder (2), AA/R6 size Battery (2), Cable Holder (4), Operating Instructions
		Remote Commander RM-971	Remote Commander RM-42B	Remote Commander RM-971
Regulation Compliance		UL1950, CSA No.950 (c-UL), CE LVD (EN60950), FCC Class B, IC Class B, VCCI Class B, CE EMC (EN5022 Class-B, EN5024, EN61000-3-2, EN61000-3-3), C-Tick (AS/NZS 3548/95, AS/NZS 4252.1), CCIB, JEIDA, CB, KTL, MIC		

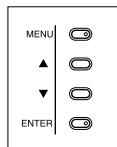
Dimensions



Control Panel



PFM 50 **PFM 42V1** The control panel is located on the top of the unit.



The control panel is located on the rear of the unit.

Note: The power switch is positioned on the front of the display.

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